SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: DuPont™ Viewpoint® Herbicide
Tradename/Synonym: DPX-Q2K12 WG
IMAZAPYR: (2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-pyridinecarboxylic acid)
AMINOCYCLOPYRACHLOR: 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate
METSULFURON METHYL: Methyl 2-[[[4-methoxy-6-methyl-1,3,5-triazin-2-yl]amino]carbonyl]amino]sulfonyl] benzoate

Product Use: Herbicide
Restrictions on use: This product is intended to be used as a pesticide
Manufacturer/Supplier: DuPont
974 Centre Road
Wilmington, DE 19805, USA

Product Information: 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

Product hazard category
Serious eye damage/eye irritation Category 2B

Label content
Pictogram: not required
Signal word: Warning
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Hazardous warnings : Causes eye irritation.

Hazardous prevention measures : Wash skin thoroughly after handling.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<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>22.8 %</td>
</tr>
<tr>
<td>Metsulfuron methyl</td>
<td>74223-64-6</td>
<td>7.32 %</td>
</tr>
<tr>
<td>Imazapyr</td>
<td>81334-34-1</td>
<td>31.6 %</td>
</tr>
<tr>
<td>Sodium carbonate</td>
<td>497-19-8</td>
<td>10 - 15 %</td>
</tr>
<tr>
<td>Other Ingredients</td>
<td></td>
<td>23.28 - 28.28 %</td>
</tr>
</tbody>
</table>

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

| Titanium dioxide          | 13463-67-7       | 0.1 - 0.5 %   |
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: 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.
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 : (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.

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)

Spray solutions of this product must be mixed, stored, and applied only in stainless steel, fiberglass, plastic, and plastic-lined steel containers. Do not mix, store, or apply this product or spray solutions of this product in unlined steel (except stainless steel) containers or spray tanks.

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

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. When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS. Refer to the product label for additional Engineering Controls.

Personal protective equipment

Skin and body protection

Mixers, loaders, applicators and other handlers must wear:
- Long sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves for all mixers and loaders, plus applicators using handheld equipment.

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. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with...
Exposure Guidelines

Exposure Limit Values

Sodium carbonate
AEL * (DUPONT) 5 mg/m3 8 & 12 hr. TWA Total dust.

Metsulfuron methyl
AEL * (DUPONT) 10 mg/m3 8 & 12 hr. TWA Total dust.

Imazapyr
No applicable data available.

Titanium Dioxide
No applicable data available.

Aminocyclopyrachlor
AEL * (DUPONT) 5 mg/m3 8 & 12 hr. TWA Respirable dust.
AEL * (DUPONT) 10 mg/m3 8 & 12 hr. TWA Total 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: solid, granules
Color: cream, off-white, tan

Odor: slight, ammoniacal
Odor threshold: No applicable data available.

pH: 5.4 - 6.2
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): The product is not flammable.
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: 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.
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.
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Revision Date 11/23/2015  
Ref. 130000050670

**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™ Viewpoint® Herbicide*

**Inhalation 4 h Acute toxicity estimate**  
> 5.1 mg/l, Rat

**Dermal Acute toxicity estimate**  
> 5,000 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**  
Mild eye irritation, Rabbit

**Sensitisation**  
Animal test did not cause sensitization by skin contact., Guinea pig

**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.

**Titanium dioxide**

**Repeated dose toxicity**  
Oral  
Rat  
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 multiple species
  - No toxicologically significant effects were found.
  - Oral Rat
  - No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification.

**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 effects.

**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.

Imazapyr
Repeate dose toxicity: Ingestion, Rat
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.

Reproductive toxicity: No effects on or via lactation, No toxicity to reproduction

Teratogenicity: Animal testing showed no developmental toxicity.

Sodium carbonate
Repeateddose 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).

<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>

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity

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

48 h EC50: Daphnia magna (Water flea) > 100 mg/l OECD Test Guideline 202

Aminocyclopyrachlor

96 h LC50: Oncorhynchus mykiss (rainbow trout) > 122 mg/l OECD Test Guideline 203

96 h ErC50: Anabaena flos-aquae (cyanobacteria) > 119 mg/l OECD Test Guideline 201

48 h EC50: Daphnia magna (Water flea) 43 mg/l OECD Test Guideline 202
90 d : NOEC Oncorhynchus mykiss (rainbow trout) 11 mg/l OECD Test Guideline 210

21 d : NOEC Daphnia magna (Water flea) 6 mg/l OECD Test Guideline 211

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

Imazapyr
96 h LC50 : Oncorhynchus mykiss (rainbow trout)
No acute toxicity effects at concentrations up to the limit of aqueous solubility

72 h EC50 : Selenastrum capricornutum (green algae)
No acute toxicity effects at concentrations up to the limit of aqueous solubility

48 h EC50 : Daphnia magna (Water flea)
No acute toxicity effects at concentrations up to the limit of aqueous solubility

62 d : NOEC Oncorhynchus mykiss (rainbow trout) > 92.4 mg/l
21 d : NOEC Daphnia magna (Water flea) > 97.1 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
Imazapyr
Bioaccumulation : Does not bioaccumulate.
Sodium carbonate

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

Bioaccumulation: Does not bioaccumulate.

Additional ecological information: Environmental Hazards: Toxic to plants. 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

<table>
<thead>
<tr>
<th>IATA_C</th>
<th>UN number</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>3077</td>
</tr>
</tbody>
</table>

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

Class: 9
Packing group: III
Labelling No.: 9MI
IMDG UN number: 3077

13 / 15
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 various state regulatory agencies, and is therefore also subject to certain requirements under US and state pesticide laws, including the Federal Insecticide Fungicide and Rodenticide Act (FIFRA). These requirements differ from the classification criteria and hazard information required by OSHA for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is information determined by USEPA, and various states.

Caution

Causes eye irritation. Avoid contact with skin, eyes and clothing. Harmful if absorbed through skin. Avoid breathing dust or spray mist. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before re-use.

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
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.

Revision Date : 11/23/2015

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.

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