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™ Resolve® DF Herbicide
Tradename/Synonym : DPX-E9636 25DF
                     Rimsulfuron 25DF
                     Titus 25DF
                     DuPont DPX-E9636 25 DF Herbicide
                     Matrix Herbicide
                     B10022922
                     RIMSULFURON (N-[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-3-
                     (ethylsulfonyl)-2-pyridinesulfonamide)

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 : 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
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>Rimsulfuron</td>
<td>122931-48-0</td>
<td>25 %</td>
</tr>
<tr>
<td>Modified Aromatic Sulfonate Salt</td>
<td></td>
<td>10 - 15 %</td>
</tr>
<tr>
<td>Other Ingredients</td>
<td></td>
<td>60 - 65 %</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: 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, Dry chemical, Foam, Carbon dioxide (CO2)

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

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: (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): No applicable data available.

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

Spill Cleanup: Shovel or sweep up. Avoid dust formation. 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.
SECTION 7. HANDLING AND STORAGE

Handling (Personnel): 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. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

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 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. Use only with adequate ventilation.

Personal protective equipment

Skin and body protection: Applicators and other handlers must wear:
- Long sleeved shirt and long pants
- Chemical-resistant gloves, Category A (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber), all greater than or equal to 14 mils
- 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, Category A (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber), all greater than or equal to 14 mils
- 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

Rimsulfuron
AEL * (DUPONT) 5 mg/m3 8 & 12 hr. TWA Total dust.
AEL * (DUPONT) 2.5 mg/m3 8 & 12 hr. TWA Respirable dust.

Modified Aromatic Sulfonate Salt
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: solid
Color: off-white, tan

Odor: none
Odor threshold: No applicable data available.

pH: 6.2 - 7.2 (1% solution in water)

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.
Density : 0.58 - 0.7 g/cm³
Specific gravity (Relative density) : No applicable data available.
Bulk density : Tapped
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 under normal conditions.
Possibility of hazardous reactions : Polymerization will not occur.
Conditions to avoid : No applicable data available.
Incompatible materials : None reasonably foreseeable.
### SECTION 11. TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Substance</th>
<th>Effect</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DuPont™ Resolve® DF Herbicide</strong></td>
<td><strong>Inhalation 4 h LC50</strong> : &gt; 7.5 mg/l, Rat</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Dermal LD50</strong> : &gt; 2,000 mg/kg, Rabbit</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Oral LD50</strong> : &gt; 5,000 mg/kg, Rat</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Skin irritation</strong> : No skin irritation, Rabbit</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Eye irritation</strong> : No eye irritation, Rabbit</td>
<td>Minimal effects that do not meet the threshold for classification.</td>
</tr>
<tr>
<td></td>
<td><strong>Sensitisation</strong> : Animal test did not cause sensitization by skin contact., Guinea pig</td>
<td></td>
</tr>
<tr>
<td><strong>Further information</strong></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td><strong>Rimsulfuron</strong></td>
<td><strong>Repeated dose toxicity</strong> : The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Oral multiple species</td>
<td></td>
</tr>
<tr>
<td></td>
<td>altered blood chemistry, Liver effects, Organ weight changes</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Carcinogenicity</strong> : Did not show carcinogenic effects in animal experiments.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Mutagenicity</strong> : Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Did not show mutagenic effects in animal experiments.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Reproductive toxicity</strong> : Animal testing did not show any effects on fertility.</td>
<td></td>
</tr>
</tbody>
</table>
Teratogenicity: Evidence suggests the substance is not a developmental toxin in animals.

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:

**DuPont™ Resolve® DF Herbicide**

96 h LC50:
- Oncorhynchus mykiss (rainbow trout) > 1,000 mg/l
- Lepomis macrochirus (Bluegill sunfish) > 1,000 mg/l
- Pseudokirchneriella subcapitata (green algae) 0.805 mg/l
- Lemna gibba (duckweed) 0.031 mg/l
- Daphnia magna (Water flea) > 1,000 mg/l
- Daphnia magna (Water flea) 4.0 mg/l

Rimsulfuron

90 d NOEC:
- NOEC Oncorhynchus mykiss (rainbow trout) 110 mg/l

Environmental Fate

Rimsulfuron

Biodegradability: According to the results of tests of biodegradability this product is not readily biodegradable.

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.
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.

Contaminated packaging: No applicable data available.

SECTION 14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>IATA_C</th>
<th>UN number</th>
<th>Proper shipping name</th>
<th>Class</th>
<th>Packing group</th>
<th>Labelling No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3077</td>
<td>Environmentally hazardous substance, solid, n.o.s. (Rimsulfuron)</td>
<td>9</td>
<td>III</td>
<td>9MI</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IMDG</th>
<th>UN number</th>
<th>Proper shipping name</th>
<th>Class</th>
<th>Packing group</th>
<th>Labelling No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3077</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Rimsulfuron)</td>
<td>9</td>
<td>III</td>
<td>9</td>
</tr>
</tbody>
</table>

Marine pollutant: yes (Rimsulfuron)

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 moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes and 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.

Title III hazard classification: Acute Health Hazard: Yes
Chronic Health Hazard: No
Fire: No
Reactivity/Physical hazard: No
Pressure: No

EPA Reg. No.: 352-556
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

NFPA
Health : 1
Flammability : 0
Reactivity/Physical hazard : 0

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Revision Date : 11/22/2015

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.