

**DuPont™ Matrix® SG Herbicide**

Version 2.0

Revision Date 02/05/2013

Ref. 130000043303

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™ Matrix® SG Herbicide
Tradename/Synonym	:	DPX-E9636 25SG Rimsulfuron 25SG B12756279 RIMSULFURON: N-((4,6-dimethoxypyrimidin-2-yl)aminocarbonyl)-3-(ethylsulfonyl)-2-pyridinesulfonamide
MSDS Number	:	130000043303
Product Use	:	Herbicide
Manufacturer	:	DuPont 1007 Market Street Wilmington, DE 19898
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

Emergency Overview

Caution

Avoid contact with skin, eyes and clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Potential Health Effects

This section includes potential acute adverse effects which could occur if this material is not used according to the label.

Repeated exposure

Quartz : DuPont has classified this material as a known human carcinogen.

Carcinogenicity

Material Safety Data Sheet



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Material	IARC	NTP	OSHA
Titanium dioxide	2B		
Quartz	1	X	

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Rimsulfuron	122931-48-0	25 %
Other Ingredients		75 %

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

Titanium Dioxide		<1 %
Quartz		<1 %

SECTION 4. FIRST AID MEASURES

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.

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

SECTION 5. FIREFIGHTING MEASURES

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| Suitable extinguishing media | : Water spray, Foam, Dry chemical, Carbon dioxide (CO2) |
| Unsuitable extinguishing media | : High volume water jet, (contamination risk) |
| Firefighting Instructions | : Wear full protective clothing and self-contained breathing apparatus. (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. 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.

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| Safeguards (Personnel) | : Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus. Use personal protective equipment. |
| Spill Cleanup | : Sweep up and shovel into suitable containers for disposal. |
| Accidental Release Measures | : Prevent material from entering sewers, waterways, or low areas. |

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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 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. Remove clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing.
- Handling (Physical Aspects) : Keep away from heat and sources of ignition.
- Storage : Store in original container. Store in a cool, dry place. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Keep out of the reach of children.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering controls : Ensure 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
Wear shoes with conductive soles.
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


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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.
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AEL *	(DUPONT)	2.5 mg/m3	8 & 12 hr. TWA Respirable dust.
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Titanium dioxide PEL:	(OSHA)	15 mg/m3	8 hr. TWA Total dust.
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TLV	(ACGIH)	10 mg/m3	TWA
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AEL *	(DUPONT)	10 mg/m3	8 & 12 hr. TWA Total dust.
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AEL *	(DUPONT)	5 mg/m3	8 & 12 hr. TWA Respirable dust.
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Quartz PEL:	(OSHA)	2.4 millions of particles per cubic foot of air Respirable.	TWA
		Remarks	The exposure limit is calculated from the equation, $250/(\%SiO_2+5)$, using a value of 100% SiO ₂ . Lower percentages of SiO ₂ will yield higher exposure limits.

PEL:	(OSHA)	0.1 mg/m3 Remarks	TWA Respirable. The exposure limit is calculated from the equation, $10/(\%SiO_2+2)$, using a value of 100% SiO ₂ . Lower percentages of SiO ₂ will yield higher exposure limits.
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PEL:	(OSHA)	0.3 mg/m3 Remarks	TWA Total dust. The exposure limit is calculated from the equation, $30/(\%SiO_2+2)$, using a value of
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			100% SiO ₂ . Lower values of % SiO ₂ will give higher exposure limits.
TLV	(ACGIH)	0.025 mg/m ³	TWA Respirable fraction.
AEL *	(DUPONT)	0.01 mg/m ³	12 hr. TWA Respirable dust.
AEL *	(DUPONT)	0.02 mg/m ³	8 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

Form	: granules
Color	: light brown
Odor	: mild
pH	: 6.7
Bulk density	: 0.638 g/ml Tapped

SECTION 10. STABILITY AND REACTIVITY

Stability	: Stable at normal temperatures and storage conditions.
Conditions to avoid	: None reasonably foreseeable.
Incompatibility	: No materials to be especially mentioned.
Hazardous reactions	: Polymerization will not occur.

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SECTION 11. TOXICOLOGICAL INFORMATION

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Dermal LD50	:	> 5,000 mg/kg , rabbit
Oral LD50	:	> 5,000 mg/kg , rat
Skin irritation	:	No skin irritation, rabbit
Eye irritation	:	No eye irritation, rabbit
Sensitisation	:	Animal test did not cause sensitization by skin contact., guinea pig

Rimsulfuron

Inhalation 4 h LC50	:	> 5.4 mg/l , rat
Repeated dose toxicity	:	The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions. Oral rat altered blood chemistry, Liver effects, Organ weight changes
Carcinogenicity	:	Did not show carcinogenic effects in animal experiments.
Mutagenicity	:	Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Did not show mutagenic effects in animal experiments.
Reproductive toxicity	:	Animal testing did not show any effects on fertility.
Teratogenicity	:	Evidence suggests the substance is not a developmental toxin in animals.

Titanium Dioxide

Carcinogenicity	:	Based upon all available study results, DuPont scientists conclude that titanium dioxide will not cause lung cancer or chronic respiratory diseases in humans at concentrations experienced in the workplace.
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Quartz

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Repeated dose toxicity : Inhalation
The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions., Fluid retention in lungs (pulmonary oedema), lung effects, Inflammation, Chronic lung disease, Fibrosis

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity
Rimsulfuron

96 h LC50 : Oncorhynchus mykiss (rainbow trout) > 390 mg/l
120 h EbC50 : Selenastrum capricornutum (green algae) 1.6 mg/l
48 h EC50 : Daphnia magna (Water flea) > 360 mg/l
90 d : NOEC Oncorhynchus mykiss (rainbow trout) 110 mg/l
21 d : NOEC Daphnia magna (Water flea) 0.82 mg/l

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.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal : 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.

Container Disposal : 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.

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SECTION 14. TRANSPORT INFORMATION

IATA_C	UN number	: 3077
	Proper shipping name	: Environmentally hazardous substance, solid, n.o.s. (Rimsulfuron)
	Class	: 9
	Packing group	: III
	Labelling No.	: 9MI
IMDG	UN number	: 3077
	Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Rimsulfuron)
	Class	: 9
	Packing group	: III
	Labelling No.	: 9
	Marine pollutant	: yes (Rimsulfuron)

Not regulated as a hazardous material by DOT.

SECTION 15. REGULATORY INFORMATION

SARA 313 Regulated Chemical(s)	: SARA 313: 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.	: 352-768 In the United States this product is regulated by the US Environmental Protection Agency (EPA) under the Federal Insecticide, Fungicide and

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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 : WARNING! This product contains a chemical or chemicals known to the State of California to cause cancer.

PA Right to Know : Substances on the Pennsylvania Hazardous Substances List present at
Regulated Chemical(s) a concentration of 1% or more (0.01% for Special Hazardous Substances): Kaolin , Disodium hydrogen orthophosphate (for Italian CPP) , Sucrose

SECTION 16. OTHER INFORMATION

NFPA

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

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Contact person : DuPont Crop Protection, Wilmington, DE, 19898, Phone: 1-888-638-7668

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