Safety Data Sheet	QUPONT			
DuPont™ Steadfas	® Q Herbicide			
/ersion 3.0				
Issue Date Revision Date	: 03/18/2019 Ref. 130000044078 : 02/08/2019			
This SDS adheres to the star equirements in other countri	dards and regulatory requirements of the United States and may not meet the regulatory es.			
SECTION 1. PRODUCT ANI	COMPANY IDENTIFICATION			
Product name Tradename/Synonym	 DuPont[™] Steadfast® Q Herbicide DPX-QVP08 37.7 WG Blend NICOSULFURON (2-[[(4,6-dimethoxypyrimidin-2- yl)aminocarbonyl]aminosulfonyl]-N,N-dimethyl-3-pyridinecarboxamide) RIMSULFURON (N((4,6-dimethoxypyrimidin-2-yl) aminocarbonyl)-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 Medical Emergency Transport Emergency	 1-800-441-7515 (outside the U.S. 1-302-774-1000) 1-800-441-3637 (outside the U.S. 1-302-774-1139) +1-800-424-9300 (outside the U.S. +1-703-527-3887) 			
SECTION 2. HAZARDS IDE	ITIFICATION			
Label content	mage/eye irritation Category 2B			
Pictogram	: not required			
Signal word	: Warning			
Hazardous warnings	: Causes eye irritation.			

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Hazardous prevention measures		lenses, if present and e	after handling. itiously with water for several minutes. Remove contact easy to do. Continue rinsing. : 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

Component	CAS-No.	Concentration
Rimsulfuron	122931-48-0	12.5 %
Nicosulfuron	111991-09-4	25.2 %
Lignin Sulfonate Salt		1 - 5 %
Disodium phosphate		1 - 5 %
Ethyl 5,5-diphenyl-2-isoxazoline-3-carboxylate		8.3 %
Other Ingredients		43.4 - 51.4 %

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



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General advice		center or doctor Information pres Occupational S Standard of 201 requirements of	ct container or label with you when calling a poison control r, or going for treatment. sented in Section 4 conforms to the requirements of the afety and Health Administration (OSHA) Hazard Communication 2. See Section 15 for applicable information conforming to the the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), he US Environmental Protection Agency (EPA), or by state ncies.
Inhalation		give artificial res	ir. If person is not breathing, call 911 or an ambulance, then spiration, preferably mouth-to-mouth, if possible. Call a poison r doctor for treatment advice.
Skin contact			taminated clothing immediately. Rinse skin immediately with for 15-20 minutes. Call a poison control center or doctor for e.
Eye contact		Remove contac	and rinse slowly and gently with water for 15-20 minutes. t lenses, if present, after the first 5 minutes, then continue I a poison control center or doctor for treatment advice.
Ingestion			rvention is indicated as the compound is not likely to be is used to be is a physician if necessary.
Most important symptoms/effects, acute and delayed Protection of first-aiders		: No applicable d : No applicable d	
Notes to physician		: No applicable d	

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	Nater spray, Foam, Dry chemical, Carbon dioxide (CO2)	
Unsuitable extinguishing media	No applicable data available.	
Specific hazards	Not a fire or explosion hazard. The material poses no explos granular form.	sion hazard in



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Special protective equipment for firefighters	: In the event of fire, wea protective equipment.	ar self-contained breathing apparatus. Use personal					
Further information : Evacuate personnel and keep upwind of fire. If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Burning chemicals may produce by-products more toxic than the original material. Use water spray. Runoff from fire control may be a pollution hazard. Do not allow run-off from fire fighting to enter drains or water courses. Cool containers/tanks with water spray. Control Runoff.							
SECTION 6. ACCIDENTAL RELEA	SE MEASURES						
NOTE: Review FIRE FIGHTING Use appropriate PERSONAL P		ING (PERSONNEL) sections before proceeding with clean-up. during clean-up.					
Safeguards (Personnel)		safe areas. Keep people away from and upwind of uate ventilation. Wear suitable protective equipment.					
Environmental precautions	: Prevent material from e	entering sewers, waterways, or low areas.					
Spill Cleanup	: Sweep up and shovel i	nto suitable containers for disposal.					
Accidental Release Measures	: Never return spills in or with local regulations.	iginal containers for re-use. Dispose of in accordance					

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)	: Keep away from heat and sources of ignition.
Dust explosion class Storage	 No applicable data available. 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.
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Storage period		: No applicable d	ata available.	
Storage temperature		: No applicable d	ata available.	

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	:	Ensure adequate ventilation. 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.
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
AEL *	(DuPont)	2.5 mg/m3	8 & 12 hr. TWA

Titanium dioxide				
PEL (Permissible	(OSHA)	15 mg/m3	8 hr. TWA	
Exposure Limit)				
PEL (Permissible Exposure Limit)	(OSHA)	10 mg/m3	TWA	

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TLV AEL * AEL *	(ACGIH) (DuPont) (DuPont)	10 mg/m3 10 mg/m3 5 mg/m3	TWA 8 & 12 hr. TWA 8 & 12 hr. TWA	
Lignin Sulfonate Sal No applicable data av				
· · ·				
Nicosulfuron AEL *	(DuPont)	5 mg/m3	8 & 12 hr. TWA	
Disodium phosphate	e			
No applicable data av				
Ethyl 5,5-diphenyl-2		3-carboxylate		
No applicable data av	vailable.			
lower than the AEL are in e	ffect, such limi	ts shall take precedend	ntally imposed occupational ex e.	posure limits which are
SECTION 9. PHYSICAL AND CH	IEMICAL PRC	PERTIES		
Appearance Physical state Form Color	: solid : solid, gra : light brov			
Odor	: slight			
Odor threshold	: No appli	cable data available.		
рН	: 5.3 - 6.3			
Melting point/range	: No appli	cable data available.		
Boiling point/boiling range	: No applicable data available.			
Flash point	: No appl	icable data available.		
Evaporation rate	: No appli	cable data available.		
Flammability (solid, gas)	Flammability (solid, gas) : No applicable data available.			
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Upper explosion limit	: No applicable data	available.
Lower explosion limit	: No applicable data	available.
Vapour Pressure	: No applicable data a	vailable.
Vapour density	: No applicable data a	vailable.
Density	: 0.57 - 0.67 g/cm3	
Specific gravity (Relative density)	: No applicable data a	vailable.
Water solubility	: No applicable data a	vailable.
Solubility(ies)	: No applicable data a	vailable.
Partition coefficient: n- octanol/water	: No applicable data a	vailable.
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 Chemical stability	No applicable data available.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.
Hazardous decomposition products	: No applicable data available.



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SECTION 11. TOXICOLOGICAL INFORMATION

DuPont [™] S	Steadfast [®] Q Herbicide		
	Inhalation 4 h Acute toxicity estimate	:	> 6.3 mg/l , Rat
	Dermal Acute toxicity estimate	:	> 5,000 mg/kg , Rabbit
	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	:	Did not cause sensitisation on laboratory animals., Guinea pig
			Did not cause sensitisation on laboratory animals., Mouse
	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.
Rimsulfuror	n Repeated dose toxicity	:	The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.
			Oral multiple species
			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.
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	Reproductive toxicity	:	Animal testing did not show any effects on fertility.
	Teratogenicity	:	Evidence suggests the substance is not a developmental toxin in animals.
Nicosulfuror	Repeated dose toxicity	:	Ingestion multiple species - 90 d 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 effects.
	Reproductive toxicity	:	No toxicity to reproduction Animal testing showed no reproductive toxicity. No effects on or via lactation
	Teratogenicity	:	Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.
Lignin Sulfo	nate Salt Repeated dose toxicity	· ·	Ingestion Rat - 16 Weeks NOAEL: 2,830 mg/kg No toxicologically significant effects were found., Information given is based on data obtained from similar substances.
	Mutagenicity	:	Animal testing did not show any mutagenic effects. Did not cause genetic damage in cultured bacterial cells. Information given is based on data obtained from similar substances.
Ethyl 5,5-dip	henyl-2-isoxazoline-3-c	arboxylate	
	Repeated dose toxicity		Ingestion Mouse - 90 dMethod: OPPTS 870.3100 No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification.
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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 Animal testing showed no reproductive toxicity.
Teratogenicity	:	Evidence suggests the substance is not a developmental toxin in animals.
Titanium dioxide		
Repeated dose toxicity	:	Oral Rat
		NOAEL: 1,000 mg/kgMethod: 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.
HazCom 2012, Appendix A.6. T Program (NTP) Report on Carci	The c inoge	r this product and/or its ingredients have been determined according to lassifications may differ from those listed in the National Toxicology ns (latest edition) or those found to be a potential carcinogen in the o Cancer (IARC) Monographs (latest edition).
Material	IARC	NTP OSHA
Titanium dioxide	2B	
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:	Oncorhynchus mykiss (rainbow trout) > 390 mg/l
:	Lepomis macrochirus (Bluegill sunfish) > 390 mg/l
:	Selenastrum capricornutum (green algae) 1.6 mg/l
:	Daphnia magna (Water flea) > 360 mg/l
:	NOEC Oncorhynchus mykiss (rainbow trout) 110 mg/l
:	NOEC Daphnia magna (Water flea) 0.82 mg/l
:	Cyprinodon variegatus (sheepshead minnow) > 124 mg/l
:	Lemna gibba (duckweed) 0.0032 mg/I US EPA Test Guideline OPP 122-2 & 123-2
:	Lemna gibba (duckweed) 0.0025 mg/l
:	Daphnia magna (Water flea) > 1,000 mg/L US EPA Test Guideline OPP 72-2
:	NOEC Oncorhynchus mykiss (rainbow trout) 24 mg/l OECD Test Guideline 210
:	NOEC Daphnia magna (Water flea) 43 mg/I OECD Test Guideline 202
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:	Lepomis macrochirus (Bluegill sunfish) 0.22 mg/l
:	Pseudokirchneriella subcapitata (green algae) > 1.26 mg/l
:	Pseudokirchneriella subcapitata (green algae) 1.26 mg/l
:	Pimephales promelas (fathead minnow) > 1,000 mg/l
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	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
Enviror	nmental Fate			
Rimsulfuron	1			
	Biodegradabilit	y	:	According to the results of tests of biodegradability this product is not readily biodegradable.
	Bioaccumulatio	n	:	Does not bioaccumulate.
Nicosulfuror				
	Bioaccumulatio	n	:	Bioaccumulation is unlikely.
Additio	nal ecological inf	[:] orma	tion :	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. Do not apply where/when conditions favour runoff. Do not apply if a severe storm is expected within 24 hours.
SECTION 1	3. DISPOSAL C	ONS	DERATION	S
Waste c Product	lisposal methods	; -	use of	contaminate water, food or feed by disposal. Wastes resulting from the this product must be disposed of on site or at an approved waste al facility.
Waste c Contain	lisposal methods er	; -	Refer t Do not	ner Refilling and Disposal: to the product label for instructions. transport if this container is damaged or leaking. event of a major spill, fire or other emergency, call 1-800-441-3637 day
			or nigh	
Contam	inated packaging	3	: No app	blicable data available.
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SECTION 14. TRANSPORT INFORMATION

IATA_C	UN number Proper shipping name	 3077 Environmentally hazardous substance, solid, n.o.s. (Nicosulfuron, Rimsulfuron)
	Class	: 9
	Packing group	: 111
	Labelling No.	: 9
IMDG	UN number	: 3077
	Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Nicosulfuron, Rimsulfuron)
	Class	: 9
	Packing group	: 111
	Labelling No.	: 9
	Marine pollutant	: yes (Nicosulfuron, Rimsulfuron)

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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!Harmful if absorbed through skin. Causes moderate eye irritation. Avoid
contact with skin, eyes and clothing. Prolonged or frequently repeated skin
contact may cause allergic reactions in some individuals.

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SARA 311/312 Hazard classification	: Serious eye damage or eye irritation		
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, Disodium phosphate, Sucrose, Sodium sulphate 		
CERCLA Reportable Quantity	Based on the percentage composition of this chemical in the product.: Disodium phosphate Naphthalene		
SARA Reportable Qua	ntity : This material does not contain any components with a SARA 302 RQ.		
EPA Reg. No.	: 352-774 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	:		
	MATION ont de Nemours and Company. f E.I. du Pont de Nemours and Company		
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Contact person	: DuPont Crop Protection, Wilmington, DE, 19805, Phone: 1-888-638-7668		
date of its publication. Th	in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the e information given is designed only as a guidance for safe handling, use, processing, storage nd release and is not to be considered a warranty or quality specification. The information 14 / 15		



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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.