Material Safety Data She	et	QU POND
DuPont [™] Perspective	[™] Herbicide	
Version 2.3		
Revision Date 12/13/2010	Ref. 13000050672	
This SDS adheres to the standa requirements in other countries.	rds and regulatory requirements of the United States and may n	not meet the regulatory
SECTION 1. PRODUCT AND C	OMPANY IDENTIFICATION	
Product name Tradename/Synonym	 DuPont[™] Perspective[™] Herbicide DPX-Q2K06 WG B12846349 AMINOCYCLOPYRACHLOR: 6-Amino-5-chloro-2-cyclop pyrimidinecarboxylic acid CHLORSULFURON: 2-Chloro-N-[(4-methoxy-6-methyl-1, yl)aminocarbonyl] benzenesulfonamide 	
MSDS Number	: 13000050672	
Product Use	: Herbicide	
Manufacturer	: DuPont 1007 Market Street Wilmington, DE 19898	
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) CHEMTREC: 1-800-424-9300 (outside the U.S. 1-703-52) 	7-3887)
SECTION 2. HAZARDS IDENTI	FICATION	
Emergency Overview Caution Harmful if swallowed. Ca	uses moderate eye irritation. Do not get in eyes or on clothing.	
Potential Health Effects This section includes pote the label.	ential acute adverse effects which could occur if this material is	not used according to
Skin	: May cause: Irritation with discomfort or rash.	
Eyes	: May cause: Irritation with discomfort, pain, redness, or	visual impairment.
Carcinogenicity	4 / 4 4	
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Material Safety	Data	Sheet
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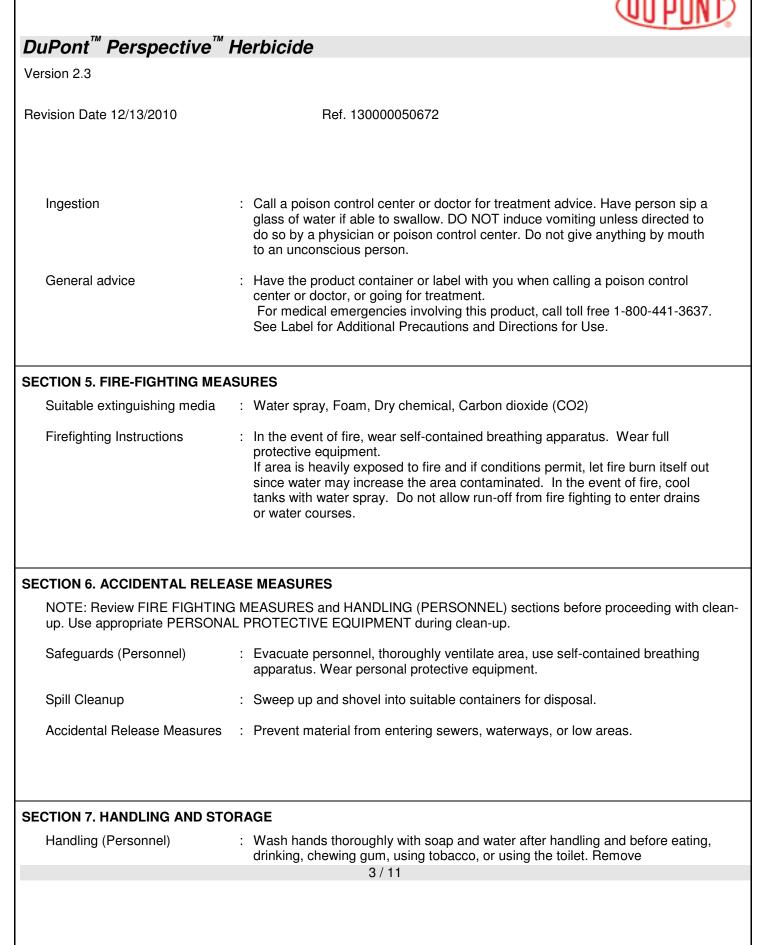
DuPont [™]	Pers	pective [™]	Herbicide
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Material	IARC	NTP	OSHA	
Titanium dioxide	2B			
CTION 3. COMPOSITION/INI	FORMATION ON IN	GREDIENTS		
Component			CAS-No.	Concentration
Component Aminocyclopyrachlor			CAS-No. 858956-08-8	Concentration 39.5 %

Present as an impunity in the clay component of this product:		
TItanium Dioxide	<1 %	

Skin contact	: The material is not likely to be hazardous by skin contact, but cleansing the skin after use is advisable.
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.
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	clean clot handling t	hing. Remo his product.	ve personal protec Wash the outside	s inside. Wash thoroughly and put on tive equipment immediately after of gloves before removing. As soon ge into clean clothing.
Handling (Physical Aspects)	: Keep awa	ay from heat	and sources of igr	nition.
Storage				des, fertilizer, food or feed in storage. ol, dry place. Keep out of the reach of
SECTION 8. EXPOSURE CONTR		IAL PROTE	CTION	
Personal protective equipmen Skin and body protection	: Applicator Long slee	ved shirt an resistant glo	handlers must we d long pants oves made of any v	ar: waterproof material
Protective measures	heavily co manufact instructior	ontaminated urer's instrue ns for washa	with this product. I ctions for cleaning/	aterials that have been drenched or Do not reuse them. Follow maintaining PPE. If no such ergent and hot water. Keep and /.
Exposure Guidelines Exposure Limit Values Aminocyclopyrachlor AEL *	(DUPONT)	5 mg/m3	8 & 12 hr. TWA	Respirable dust.
AEL *	(DUPONT)	10 mg/m3	8 & 12 hr. TWA	Total dust.
Chlorsulfuron AEL *	(DUPONT)	10 mg/m3	8 & 12 hr. TWA	Total dust.
AEL *	(DUPONT)	5 mg/m3	8 & 12 hr. TWA	Respirable dust.
Titanium dioxide PEL:	(OSHA)	15 mg/m3	8 hr. TWA To	tal dust.
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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.
are lower than the AEL a	otable Exposure Limit. Where governmentally imposed occupational exposure limits which are in effect, such limits shall take precedence.
Form Color Odor pH Bulk density Water solubility	: granular : cream, light tan : slight : 5.6 : 0.57 mg/l : dispersible
CTION 10. STABILITY AN	D REACTIVITY
Stability	: Stable at normal temperatures and storage conditions.
Conditions to avoid	: None reasonably foreseeable.
Incompatibility	: No materials to be especially mentioned.
CTION 11. TOXICOLOGIC	
DuPont [™] Perspective [™] H Inhalation 4 h LC	erbicide C50
	: > 5,000 mg/kg , rat
Dermal LD50	
Dermal LD50 Oral LD50	: > 5,000 mg/kg , rat



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Eye irritation	: Moderate eye irritation, rabbit
Sensitisation	: Animal test did not cause sensitization by skin contact., mice
Aminocyclopyrachlor Carcinogenicity	: Animal testing did not show any carcinogenic effects.
Mutagenicity	 Evidence suggests this substance does not cause genetic damage in cultured bacterial cells. Evidence suggests this substance does not cause genetic damage in cultured mammalian cells. Evidence suggests this substance does not cause genetic damage in animals.
Reproductive toxicity	: No toxicity to reproduction
Teratogenicity	: Evidence suggests the substance is not a developmental toxin in animals.
Chlorsulfuron	
Repeated dose toxicity	The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.
	Inhalation rat Reduced body weight gain, Kidney effects, Spleen effects, Bloody urine, bone marrow changes
	Oral rat Reduced body weight gain, altered blood chemistry
	Oral dog Abnormal decrease in number of red blood cells
Carcinogenicity	: The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.
	A slight increased incidence in tumors was observed in one species, but not in other species.
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	Target(s): Leydig cells
Mutagenicity	: Did not cause genetic damage in cultured bacterial cells.
	Did not cause genetic damage in animals.
	Did not cause genetic damage in cultured mammalian cells.
Reproductive toxicity	: Animal testing showed no reproductive toxicity.
Teratogenicity	: The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.
	Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.
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.
SECTION 12. ECOLOGICAL INFORM	ΛΑΤΙΟΝ
Aquatic Toxicity Aminocyclopyrachlor	
96 h LC50	: Oncorhynchus mykiss (rainbow trout) > 122 mg/l
96 h LC50	: Lepomis macrochirus (Bluegill sunfish) > 120 mg/l
72 h EC50	: Pseudokirchneriella subcapitata (green algae) > 122 mg/l
72 h EC50	: Anabaena flos-aquae (cyanobacteria) 7.4 mg/l
96 h EC50	: Daphnia magna (Water flea) 43 mg/l
Chlorsulfuron 96 h LC50	: Oncorhynchus mykiss (rainbow trout) > 122 mg/l
96 h LC50	: Lepomis macrochirus (Bluegill sunfish) > 128 mg/l
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96 h LC50	: Cyprinodon variegatus (sheepshead minnow) > 980 mg/l
120 h EbC50	: Pseudokirchneriella subcapitata (green algae) 0.05 mg/l
48 h EC50	: Daphnia magna (Water flea) > 112 mg/l
Toxicity to other organisms	
Aminocyclopyrachlor LD50	: Colinus virginianus (Bobwhite quail) > 2,075 mg/kg Oral
LC50	: Colinus virginianus (Bobwhite quail) > 5,620 ppm Dietary
LC50	: Anas platyrhynchos (Mallard duck) > 5,620 ppm Dietary
Chlorsulfuron	
LD50	: Anas platyrhynchos (Mallard duck) > 5,000 mg/kg Oral
LD50	: Colinus virginianus (Bobwhite quail) > 5,000 mg/kg Oral
8 d LC50	: Colinus virginianus (Bobwhite quail) > 5,620 mg/kg Dietary
8 d LC50	: Anas platyrhynchos (Mallard duck) > 5,620 mg/kg Dietary
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 CONSIDE	
Waste Disposal	: Do not contaminate water, food or feed by disposal. Wastes resulting from the
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Container Dis	disposal faci posal : Container R Refer to the Do not trans	use of this product must be disposed of on site or at an approved waste disposal facility. 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.	
IATA_C	UN number	: 3077	
IMDG	Proper shipping name Class Packing group Labelling No.	 Environmentally hazardous substance, solid, n.o.s. (Chlorsulfuron) 9 III 9MI 	
	UN number Proper shipping name Class	 3077 Environmentally hazardous substance, solid, n.o.s. (Chlorsulfuron) 9 	
	Packing group Labelling No.	: 9 : 9	
	Marine pollutant	: yes (Chlorsulfuron)	
Not regulated	d as a hazardous material by DOT		
CTION 15. RE	GULATORY INFORMATION		
SARA 313 Chemical(s		n	
Title III haz	ard : Acute Health	n Hazard: Yes	
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DuPont [™] Perspective [™]	" Herbic	ide				
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classification	Chro	nic Health Hazard: No				
olassinoation	Fire:	Fire: No				
		tivity/Physical hazard: No sure: No				
EPA Reg. No.	: 352-8 In the	346 e United States this product is reg	ulated by the US Environmental			
	Prote	ection Agency (EPA) under the Fe	deral Insecticide, Fungicide and			
			on of Federal law to use this product in . . Read and follow all label directions.			
	This	This product is excluded from listing requirements under EPA/TSCA.				
California Prop. 65		: WARNING! This product contains a chemical known to the State of California				
	to cause birth defects or other reproductive harm.Chlorsulfuron					
PA Right to Know		 Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances): Kaolin, Sodium sulphate 				
Regulated Chemical(s)						
	Subs		5			
SECTION 16. OTHER INFORMA						
		NFPA	HMIS			
Health	:	1	1			
Flammability	:	1	1			
Reactivity/Physical hazard		0	0			
neactivity/i hysicai hazaru	•	U	0			
[™] Trademark of E.I. du Pont	de Nemoui	's and Company.				
[®] Registered trademark of E	I. du Pont o	le Nemours and Company				
Contact person	: DuPor	it Crop Protection, Wilmington, DI	E, 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.						
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Significant change from previous version is denoted with a double bar.