

## DuPont<sup>™</sup> Perspective<sup>™</sup> Herbicide

Version 2.3

Revision Date 12/13/2010 Ref. 130000050672

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<sup>™</sup> Perspective Herbicide

Tradename/Synonym : DPX-Q2K06 WG

B12846349

AMINOCYCLOPYRACHLOR: 6-Amino-5-chloro-2-cyclopropyl-4-

pyrimidinecarboxylic acid

CHLORSULFURON: 2-Chloro-N-[(4-methoxy-6-methyl-1,3,5-triazin-2-

yl)aminocarbonyl] benzenesulfonamide

MSDS Number : 130000050672

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

Harmful if swallowed. Causes moderate eye irritation. Do not get in eyes or on clothing.

Potential Health Effects

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

Skin : May cause: Irritation with discomfort or rash.

Eyes : May cause: Irritation with discomfort, pain, redness, or visual impairment.

Carcinogenicity

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Material IARC NTP OSHA

Titanium dioxide 2B

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS-No.	Concentration
Aminocyclopyrachlor	858956-08-8	39.5 %
Chlorsulfuron	64902-72-3	15.8 %
Other Ingredients		44.7 %

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

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Tltanium Dioxide	<1 %

#### **SECTION 4. FIRST AID MEASURES**

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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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.

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. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Water spray, Foam, Dry chemical, Carbon dioxide (CO2)

Firefighting Instructions : In the event of fire, wear self-contained breathing apparatus. Wear full

protective equipment.

If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. In the event of fire, cool 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.

Safeguards (Personnel) : Evacuate personnel, thoroughly ventilate area, use self-contained breathing

apparatus. Wear 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.

#### **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

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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) : Keep away from heat and sources of ignition.

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.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Skin and body protection : Applicators and other handlers must wear:

Long sleeved shirt and long pants

Chemical resistant gloves made of any waterproof material

Shoes plus socks

Protective measures : Discard clothing and other absorbent materials that have been drenched or

heavily contaminated with this product. Do not reuse them. 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
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 Total 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.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Form : granular

Color : cream, light tan

Odor : slight
pH : 5.6
Bulk density : 0.57 mg/l
Water solubility : dispersible

#### **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.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

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Inhalation 4 h LC50 : > 5.11 mg/l, rat

Dermal LD50 : > 5,000 mg/kg, rat

Oral LD50 : > 5,000 mg/kg, rat

Skin irritation : slight irritation, rabbit

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<sup>\*</sup> 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.



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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

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.

Tltanium 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 INFORMATION**

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

Orai

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 CONSIDERATIONS**

Waste Disposal : Do not contaminate water, food or feed by disposal. Wastes resulting from the

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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.

#### **SECTION 14. TRANSPORT INFORMATION**

IATA\_C UN number : 3077

Proper shipping name : Environmentally hazardous substance, solid, n.o.s.

(Chlorsulfuron)

Class : 9
Packing group : III
Labelling No. : 9MI

UN number : 3077

Proper shipping name : Environmentally hazardous substance, solid, n.o.s.

(Chlorsulfuron)

Class : 9
Packing group : III
Labelling No. : 9

Marine pollutant : yes (Chlorsulfuron)

Not regulated as a hazardous material by DOT.

#### **SECTION 15. REGULATORY INFORMATION**

SARA 313 Regulated

Chemical(s)

**IMDG** 

: Chlorsulfuron

Title III hazard : Acute Health Hazard: Yes

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classification Chronic Health Hazard: No

Fire: No

Reactivity/Physical hazard: No

Pressure: No

EPA Reg. No. : 352-846

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 : 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

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, Sodium sulphate

#### **SECTION 16. OTHER INFORMATION**

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

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

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<b>DuPont</b>	™ Perspective™	Herbicide			
Version 2.3					
Revision Da	ate 12/13/2010		Ref. 1300000506	372	
Signific	cant change from previ	ious version is c	denoted with a dou	ble bar.	

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