

**DuPont™ Streamline™ Herbicide**

Version 2.1

Revision Date 12/10/2010

Ref. 130000050624

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™ Streamline™ Herbicide
Tradename/Synonym : DPX-Q2K13
DPX-Q2K13 WG / DF
B12847566
AMINOCYCLOPYRACHLOR: 6-Amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylic acid
METSULFURON METHYL: Methyl 2-[[[(4-methoxy-6-methyl-1,3,4-triazin-2-yl)amino]carbonyl]amino]sulfonyl]benzoate

MSDS Number : 130000050624

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

Causes moderate eye irritation. Do not get in eyes or on clothing. Avoid breathing dust or spray mist.

Potential Health Effects

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

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 %
Metsulfuron methyl	74223-64-6	12.6 %
Other Ingredients		47.9 %

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

Titanium Dioxide		<1 %
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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.
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 : 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. FIRE-FIGHTING MEASURES

- Fire and Explosion Hazard : Not a fire or explosion hazard.
- 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.
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 clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing.



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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
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

Aminocyclopyrachlor

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

AEL * (DUPONT) 10 mg/m3 8 & 12 hr. TWA Total dust.

Metsulfuron methyl

AEL * (DUPONT) 10 mg/m3 8 & 12 hr. TWA

Titanium dioxide

PEL: (OSHA) 15 mg/m3 8 hr. TWA Total dust.

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.

* 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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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: granular
Color	: cream, light tan
Odor	: slight
pH	: 5.7
Bulk density	: 0.56 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

DuPont™ Streamline™ Herbicide	
Inhalation 4 h LC50	: > 5.18 mg/l , rat
Dermal LD50	: > 5,000 mg/kg , rat
Oral LD50	: > 5,000 mg/kg , rat
Skin irritation	: No skin irritation, rabbit
Eye irritation	: Moderate eye irritation, rabbit
Sensitisation	: Animal test did not cause sensitization by skin contact., guinea pig
Further information	: Information given is based on data on the components and the toxicology of similar products.
Aminocyclopyrachlor	
Carcinogenicity	: Animal testing did not show any carcinogenic effects.
Mutagenicity	: Evidence suggests this substance does not cause genetic damage in



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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.

Metsulfuron methyl
 Repeated dose toxicity : The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.

Oral
 rat
 Reduced body weight gain, Organ weight changes, Liver

Dermal
 rabbit
 Skin irritation

Carcinogenicity : Did not show carcinogenic effects in animal experiments.

Mutagenicity : Did not show mutagenic effects in animal experiments.

Did not cause genetic damage in cultured bacterial cells.

Genetic damage in cultured mammalian cells was observed in some laboratory tests but not in others.

Reproductive toxicity : Animal testing did not show any effects on fertility.

Teratogenicity : Animal testing showed no developmental 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.


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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 |

Metsulfuron methyl

- | | | |
|-----------|---|--|
| 96 h LC50 | : | Oncorhynchus mykiss (rainbow trout) > 150 mg/l |
| 72 h EC50 | : | Anabaena flos-aquae (cyanobacteria) 0.066 mg/l |
| 14 d EC50 | : | Lemna minor 0.00036 mg/l |
| 48 h EC50 | : | Daphnia magna (Water flea) > 120 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 |

Metsulfuron methyl

- | | | |
|------|---|--|
| LD50 | : | Anas platyrhynchos (Mallard duck) > 2,510 mg/kg |
| LC50 | : | Colinus virginianus (Bobwhite quail) > 5,620 mg/kg |

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


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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 use of this product must be disposed of on site or at an approved waste disposal facility.
- Container 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. (Metsulfuron methyl) |
| | Class | : 9 |
| | Packing group | : III |
| | Labelling No. | : 9MI |
| IMDG | UN number | : 3077 |
| | Proper shipping name | : Environmentally hazardous substance, solid, n.o.s. (Metsulfuron methyl) |
| | Class | : 9 |
| | Packing group | : III |
| | Labelling No. | : 9 |
| | Marine pollutant | : yes (Metsulfuron methyl) |

Not regulated as a hazardous material by DOT.

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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.
- EPA Reg. No. : 352-848
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.
- 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

- ™ Trademark of E.I. du Pont de Nemours and Company.
® Registered trademark of E.I. du Pont de Nemours and Company

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

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