



Du Pont
Material Safety Data Sheet

"DuPont" "CANOPY" HERBICIDE
M0000632 Revised 8-APR-2011

Substance ID :130000028928

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

"CANOPY" is a registered trademark of DuPont.

"DuPont" is a trademark of DuPont.

Tradenames and Synonyms

DPX-L8347
Canopy 75 DF
B10048413

Company Identification

MANUFACTURER/DISTRIBUTOR
DuPont
1007 Market Street
Wilmington, DE 19898

PHONE NUMBERS

Product Information : 1-800-441-7515 (outside the U.S.
302-774-1000)
Transport Emergency : CHEMTREC 1-800-424-9300(outside U.S.
703-527-3887)
Medical Emergency : 1-800-441-3637 (outside the U.S.
302-774-1000)

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Table with 3 columns: Material, CAS Number, %
*METRIBUZIN 21087-64-9 64.3
4-Amino-6-(1,1-dimethylethyl)-3-(methylthio)-1,
2,4-triazin-5(4H)-one
*CHLORIMURON ETHYL 90982-32-4 10.7
(Ethyl 2-[[[(4-chloro-6-methoxy-pyrimidin-2-yl)
amino]carbonyl]amino]sulfonyl] benzoate)
OTHER INGREDIENTS 25

* Disclosure as a toxic chemical is required under Section 313 of
Title III of the Superfund Amendments and Reauthorization Act of 1986
and 40 CFR part 372.

HAZARDS IDENTIFICATION

Emergency Overview

Harmful if swallowed, inhaled, or absorbed through skin. Causes moderate eye irritation. Avoid breathing dust, vapor or spray mist. Avoid contact with skin, eye or clothing.

In case of contact with eyes, immediately flush with plenty of water. Get medical attention if irritation persists.

Potential Health Effects

Based on animal data, eye contact may cause eye irritation with discomfort, tearing, or blurring of vision.

Based on animal data, repeated or excessive overexposure by ingestion may cause abnormal liver function with altered enzyme levels in blood, or alterations in blood cell counts and/or anemia.

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

FIRST AID MEASURES-----
First Aid

IF SWALLOWED: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor.

IF ON SKIN: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF IN EYES: 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. Call a poison control center or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor. For medical emergencies

involving this product, call toll free 1-800-441-3637.

FIRE FIGHTING MEASURES

Flammable Properties

Not a fire or explosion hazard.

Like most organic powders or crystals, under severe dusting conditions, this material may form explosive mixtures in air.

Extinguishing Media

Water Spray, Dry Chemical.

Fire Fighting Instructions

Wear self-contained breathing apparatus. Wear full protective equipment. Keep personnel removed and upwind of fire. Cool tank/container with water spray. Runoff from fire control may be a pollution hazard.

If area is exposed to fire and conditions permit, let fire burn itself out. Burning chemicals may produce by-products more toxic than the original material. If product is on fire, wear self-contained breathing apparatus and full protective equipment. Use water spray. Control runoff.

ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Emergency Response - Chemical resistant coveralls, waterproof gloves, waterproof boots and face/eye protection. If dusting occurs, use NIOSH approved respirator protection.

Initial Containment

Dike spill. Prevent material from entering sewers, waterways, or low areas. Follow applicable Federal, State/Provincial and Local laws/ regulations.

Spill Clean Up

Shovel or sweep up.

Accidental Release Measures

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If spill area is on ground near valuable plants or trees, remove top 2 inches of soil after initial cleanup.

HANDLING AND STORAGE

Handling (Personnel)

USERS SHOULD: Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE 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)

Avoid dust generation.

Storage

Store product in original container only. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in a cool, dry place.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR part 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

Important: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "Applicators and Other Handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

Personal Protective Equipment

Some of the material that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistant category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Chemical resistant gloves made of any water proof

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material such as polyethylene or polyvinylchloride.
Shoes plus socks.

Discard clothing and other absorbent material that have

been drenched or heavily contaminated with the product.
Follow manufacturer's instructions for cleaning/maintaining
PPE. If no such instructions for washables, use detergent
and hot water. Keep and wash PPE separately from other
laundry.

PPE required for early entry into 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 made of any water proof
material such as polyethylene or polyvinylchloride.
Shoes plus socks.

Exposure Guidelines

Applicable Exposure Limits

*METRIBUZIN

PEL (OSHA)	: None Established
TLV (ACGIH)	: 5 mg/m ³ , 8 Hr. TWA, A4
AEL * (DuPont)	: 5 mg/m ³ , 8 & 12 Hr. TWA

CHLORIMURON ETHYL

PEL (OSHA)	: None Established
TLV (ACGIH)	: None Established
AEL * (DuPont)	: 10 mg/m ³ , 8 & 12 Hr. TWA, total dust 5 mg/m ³ , 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.

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Solubility in Water	: Dispersible
pH	: 7-7.6 (2% in water)
Odor	: Slight mercaptan-like
Form	: Solid, granules
Color	: Brown

STABILITY AND REACTIVITY

Chemical Stability

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Stable at normal temperatures and storage conditions.

Incompatibility with Other Materials

None reasonably foreseeable.

Decomposition

Decomposition will not occur.

Polymerization

Polymerization will not occur.

TOXICOLOGICAL INFORMATION

Animal Data

CANOPY

Oral LD50 : 1282 mg/kg in rats
Dermal LD50 : > 5,000 mg/kg in rats
4-Hour Inhalation LC50: > 5.3 mg/L in rats

Canopy is a mild to moderate eye irritant, a slight skin irritant, but is not a skin sensitizer in animals.

METRIBUZIN

Repeated exposures to high doses produced decreased growth rate, liver and thyroid enlargement, and kidney damage. NOEL (No-observed-effect-level) was 100 ppm in long-term feeding studies in dogs and rats.

Animal testing indicates that Metribuzin does not have carcinogenic, developmental, or reproductive effects.

Metribuzin did not produce genetic damage in bacterial or mammalian cell cultures or in tests in animals. It did not produce heritable genetic damage.

CHLORIMURON ETHYL

Repeated applications of Chlorimuron Ethyl to the skin of rabbits for 21 days at doses up to and including the limit dose resulted in no significant toxicological effects. Repeated and long-term ingestion of Chlorimuron Ethyl by rats, mice, and dogs caused liver effects, slight to mild anemia, altered clinical chemistry, and/or decreased body weight at higher exposure levels. In rats and mice, Chlorimuron Ethyl has not caused carcinogenicity.

Exposure of pregnant rats and rabbits caused growth retardation in the fetus at maternally toxic doses. Developmental toxicity was also observed in fetuses from rats exposed to maternally toxic doses. Reproductive data in rats show nutritional and organ effects in offspring only

at levels which produce other toxic effects in the adult animal. There were no effects on fertility or lactation indices in rats.

Tests have shown that Chlorimuron Ethyl does not cause genetic damage in bacterial or mammalian cell cultures, or in animals.

ECOLOGICAL INFORMATION

Ecotoxicological Information**AQUATIC TOXICITY****CHLORIMURON ETHYL**

96 hour LC50 - Rainbow trout: > 1000 ppm
96 hour LC50 - Bluegill sunfish: > 100 ppm
48 hour EC50 - Daphnia magna: > 1000 ppm
72 hour EC50 - Algae: 1 ppb

AVIAN TOXICITY**CHLORIMURON ETHYL**

Acute Oral LD50- Mallard duck: > 2510 ppm
Acute Dietary LC50 Bobwhite quail: > 5620 ppm
Acute Dietary LC50 Mallard duck: > 5620 ppm

AQUATIC TOXICITY**METRIBUZIN**

96 hour LC50 - Bluegill sunfish: 80 mg/L

DISPOSAL CONSIDERATIONS

Waste Disposal

Do not contaminate water, food or feed by disposal. Waste resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

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 favor runoff.

Container Disposal

Container Refilling and Disposal: Refer to the product label for instructions.

Do not transport if this container is damaged or leaking.

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In the event of a major spill, fire or other emergency,
contact DuPont at 1-800-441-3637, day or night.

TRANSPORTATION INFORMATION

Shipping Information

DOT:

Not Regulated.

IATA_C:

UN number : 3077
Proper shipping name : Environmentally hazardous
substance, solid, n.o.s.
(Chlorimuron Ethyl)
Class : 9
Packing group : III
Labelling No. : 9MI

IMDG:

UN number : 3077
Proper shipping name : Environmentally hazardous
substance, solid, n.o.s.
(Chlorimuron Ethyl)
Class : 9
Packing group : III
Labelling No. : 9
Marine Pollutant : Yes (Chlorimuron Ethyl)

REGULATORY INFORMATION

U.S. Federal Regulations

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : Yes
Chronic : No
Fire : No
Reactivity : No
Pressure : No

In the United States this product is regulated by the US
Environmental Protection Agency under the Federal Insecticide,
Fungicide and Rodenticide Act. It is a violation of federal law
to use this product in a manner inconsistent with its labeling.

EPA Reg. No. 352-444

OTHER INFORMATION

NFPA, NPCA-HMIS

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NFPA Rating
Health : 1
Flammability : 1
Reactivity : 0

NPCA-HMIS Rating
Health : 1
Flammability : 1
Reactivity : 0

Personal Protection rating to be supplied by user depending on use conditions.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS: DuPont Crop Protection
Address : Wilmington, DE 19898
Telephone : 1-888-638-7668

Indicates updated section.